

VALVE AND SPRING FOR FLUID FILTER

ABSTRACT OF THE DISCLOSURE

A fluid filter includes a housing having a tapping plate with a first aperture. A center tube is arranged in the housing proximate to the tapping plate. The center tube includes a second aperture. An elastomeric valve assembly is arranged between the center tube and the tapping plate. The valve assembly comprises an integrated, one-piece relief valve and anti-drain back valve. The anti-drain back valve is arranged adjacent to the first aperture for selectively blocking the first aperture to prevent fluid from exiting the inlet side of the filter during pressure drops. The relief valve is arranged adjacent to the second aperture for selectively blocking the second aperture to permit fluid to flow past the relief valve during high pressure conditions such as cold starts. A generally concave conical spring radially biases the relief valve closed.